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ABSTRACT

Citations of nearly 800 materials of different types--including books, journal articles, papers and reports--comprise this bibliography. Taken as a whole, the work offers teachers, administrators, researchers and policy-makers an overview of the most significant recent literature on the topics of communication systems, educational and instructional technology, and the use of technological innovations to improve educational productivity. The majority of the works cited were authored within the last six years, although a few publications of earlier vintage are included. (PB)

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COMPILED BIBLIOGRAPHY ON IMPROVING PRODUCTIVITY OF SCHOOL SYSTEMS THROUGH EDUCATIONAL TECHNOLOGY

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to

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Technology & Productivity Task Force
Office of Education
National Center for Educational Technology

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INTRODUCTION

Utilizing the tools of technology in school systems is a practice as old as the tools themselves. Back in the 1930's, films, slides and phonograph records made up the bulk of audio-visual aids. Research and development activities during World War II brought about many refinements in these tools and by the late 1940's television and the tape recorder had found their way into school classrooms and auditoriums. Then, during the 1950's, technology-based instructional systems such as the language laboratory were introduced. However, the innovations of the 1960's and early 1970's far outstripped all that had transpired before. A rapidly maturing computer entered the scene, providing a staggering application potential for instructional purposes in addition to its many data processing functions. By the summer of 1973, cable television and communications satellites, along with audio-video tape cassettes, completed the tool chest for educational technology.

A craftsman with such a formidable array of tools could be expected to produce highly professional, finely finished products. If so, what are these products? How were they developed, tested and produced? What was the cost breakdown and who paid the bill? How did the consumers respond? Where does the product stand now? What new products can we expect in the near future?

These were some of the questions the Office of Education's National Center for Educational Technology (NCET) hoped to have answered when it initiated the symposium, "Improving Productivity of School Systems through Educational Technology" which was designed and conducted by Research for Better Schools, Inc. The project was subsequently transferred to the National Institute of Education's Technology and Productivity Task Force. Specifically, the symposium, held August 20-22, 1973, was designed to explore, in depth, the potentials and implications of using new and advanced communications and technology-based systems for improving educational productivity. Commissioned papers, discussions and the final report were to focus on the issues relating to the instruction and maintenance of alternative cost-effective methods of providing instruction. These methods were to be explored in the context of the total spectrum of human systems involved in the educational process.

This bibliography represents a composite of the most up-to-date lists prepared by Dr. Robert Filep, Director of the National Center for Educational Technology of the Office of Education, and by Mr. Kevin Arundel, the Project Monitor representing the Technology and Productivity Task Force of the National Institute of Education, and the individual bibliographies prepared by the authors of commissioned papers.

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The Final Report of this project, including the commissioned papers, discussants' remarks, and an analysis of the issues, problems, strategies and recommendations, is available from Research for Better Schools, Inc.

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